

PRINCIPLES OF RELATIVITY AND OF EQUIVALENCE IN THE EINSTEINIAN GRAVITATION THEORY

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The role of the concepts of principles of general relativity and of equivalence in Einsteinian Gravitation theory was analysed. It was argued that this latter principle considered from the point of view of the theory itself, plays only a restricted part and is only approximate. Not this principle, but the idea of the unification of space and time and the assumption that physical processes can influence this metric constitute the very foundation of Einstein's gravitation theory.

* This abstract has been given by the Redaction based on the lecture given by the Author. The subject material has been published in more detail in Вопросы философии No. 12, 46/1961) and "Det Kongelige Norske Videnskabers Selskabs Vorhandlinger, Bind 36, (1963) p. 16.